



# UNITED STATES PATENT AND TRADEMARK OFFICE

*OK*

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/829,431	04/22/2004	Ching Man Tsui	033539-021	8776
21839	7590	08/09/2006	EXAMINER	
BUCHANAN, INGERSOLL & ROONEY PC POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404			NGUYEN, VINH P	
			ART UNIT	PAPER NUMBER
			2829	

DATE MAILED: 08/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/829,431

Applicant(s)

TSUI ET AL.

Examiner

VINH P. NGUYEN

Art Unit

2829

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 30 May 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6,8-12 is/are rejected.
- 7) ☒ Claim(s) 7 and 13 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

Art Unit: 2829

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

3. Claims 6,10 and 13 are objected to because of the following informalities:

In claim 6, it is unclear whether the moving means is activated by the compressed air or the moving means activates the compressed air.

In claim 10, it is unclear what "means for electrically grounding the main body" comprises of. Is it shown in any of drawings?

In claim 13, it is unclear what "means for coupling said main body with a transport mechanism" comprises of. Is it shown in any of drawings?

Appropriate correction is required.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-5,8-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Jeong et al (Pat # 5,990,692).

As to claim 1, Jeong et al disclose a testing apparatus for non packaged semiconductor chip having a lead frame (10) with at least one row of non singulated semiconductor devices (1),

a main body (40) , a lead frame support member (20) with at least one groove (22) for receiving semiconductor devices (1) such that in use leads extending from said devices lie on a surface of said support member (20).

As to claim 2, the lead frame support member (20) is formed with a plurality of parallel grooves (22).

As to claims 3, Jeong et al disclose means for releasably gripping said lead frame (10) so as to hold the lead frame in place.

As to claim 4, the gripping means comprises a pair of gripping members (46) disposed on respective sides of said grooves (22) when the lead frame are held in place.

As to claim 5, Jeong et al disclose means (60,62,64,68) for moving the gripping members (46) into and out of engagement with the lead frame (10).

As to claim 8, wherein the gripping means (46) extends through apertures (26) formed on the lead frame support member (20).

As to claim 9, Jeong et al disclose the main body (40) is formed with locating pins (48) for locating the lead frame support member (20) on the main body (40).

As to claim 10, having the main body formed of conducting material and provided with means for electrically grounding the main body is considered an intrinsic property of the apparatus of Jeong et al.

As to claim 11, the lead frame support member (20) of Jeong et al formed of a highly resistive insulating material is considered an intrinsic property of the apparatus of Jeong et al

As to claim 12, the main body (40) is provided with identification means (42,44). It is noted that the term "identification means" is a broad term, therefore the openings "42,444" would qualified as "identification means.

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jeong et al in view of Boegh-Petersen (pat # 4,833,402).

For examination purpose, Examiner consider "moving means is an activated compressed air .

As to claim 6, Jeong disclose a testing apparatus for non packaged semiconductor chip as mentioned in paragraph # 5 above. However, Jeong et al do not mention about the moving means is actuated by compressed air.

However, Boegh Petersen teaches that it would have been well known to use the air compressed air motor as moving means .

It would have been obvious for one of ordinary skill in the art to use an air compressed motor type as taught by Boegh Petersen in place of a cylinder as a part of the moving means of Jeong et al so that the movement of the gripping members into and out of engagement with the

lead frame is easier.

8. Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art does not disclose a plurality of pairs of gripping members are provided and wherein said compressed air is provided directly to one said pair and is distributed to the other pairs by an air distribution assembly formed in the main body.

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Bregman et al (Pat # 5,189,363) disclose an integrated circuit testing system.


10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VINH P. NGUYEN whose telephone number is 571-272-1964. The examiner can normally be reached on 6:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, HA T. NGUYEN can be reached on 571-272-1678. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Art Unit: 2829

Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
VINH P NGUYEN  
Primary Examiner  
Art Unit 2829  
07/31/06